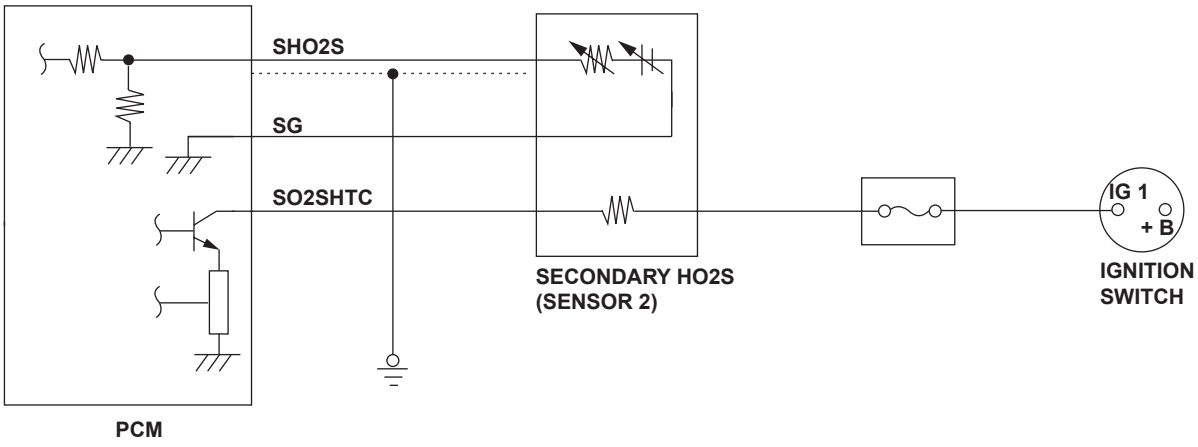
# DTC P0141: Secondary Heated Oxygen Sensor (Secondary HO2S) (Sensor 2) Heater Circuit Malfunction




P0137-9802

## General Description

A heater for the sensor element is embedded in the secondary heated oxygen sensor (secondary HO2S) and is controlled by the powertrain control module (PCM). When activated, it heats the sensor to stabilize and speed up the detection of oxygen content when the exhaust gas temperature is cold.
If the secondary HO2S heater draws more or less than a specified amperage, the PCM detects a malfunction and a DTC is stored.

## Monitor Execution, Sequence, Duration, DTC Type

| | |
|---|---|
| Execution | Continuous |
| Sequence | None |
| Duration | 5 seconds or more |
| DTC Type | One drive cycle, MIL ON |

## Enable Conditions

| Condition | Minimum | Maximum |
|---|---|---|
| Engine coolant temperature | 41ºF (5ºC) | — |
| Battery voltage (IGP terminal of PCM) | 10.5 V | 16 V |
| State of the engine | Running | |
| No active DTCs | Secondary HO2S Heater, ECT | |
| Other | During secondary HO2S heater operation | |

## Malfunction Threshold

The current is 171 mA or less, or 1,800 mA or more for at least 5 seconds when the heater is on.

## Driving Pattern

Start the engine. Hold the engine at 3,000 rpm with no load (in park or neutral) until the radiator fan comes on.

## Diagnosis Details

**Conditions for illuminating the MIL**
When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the PCM memory.

**Conditions for clearing the MIL**
The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.
The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.